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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/801,413	03/16/2004	Nobuharu Nagaoka	SIP-125-A	5085
21828 7590 05/03/2007 CARRIER BLACKMAN AND ASSOCIATES 24101 NOVI ROAD			EXAMINER	
			WANG, CLAIRE X	
	SUITE 100 NOVI, MI 48375		ART UNIT	PAPER NUMBER
•				
			NOTIFICATION DATE	DELIVERY MODE
			05/03/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

cbalaw@gmail.com cbalaw@ameritech.net wblackman@ameritech.net

	Application No.	Applicant(s)				
	10/801,413	NAGAOKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Claire Wang	2624				
The MAILING DATE of this communication app	_					
Period for Reply		•				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period and a second period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become A	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 16 M	<u>larch 2004</u> .	•				
;—						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-14 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14</u> is/are rejected.						
7) Claim(s) is/are objected to.	ur alaatian raquiramant					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>16 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
Notice of Dransperson's Patent Drawing Review (PTO-946) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		f Informal Patent Application				

Art Unit: 2624

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Nagaoka et al. (US 2003/0138133 hereinafter "Nagaoka").

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

As to claim 1, Nagaoka teaches a device for monitoring around a vehicle capable of detecting objects present around said vehicle based on an image captured by at least one infrared camera member provided with said vehicle (Paragraph [0015], lines 4-5),

Art Unit: 2624

said device comprising a pedestrian's head area calculating unit which establishes an area which is supposed to correspond to a head of said pedestrian as a reference area ([0019], lines 3-5); a pedestrian's over-shoulder area calculating unit which establishes two object areas which are supposed to correspond to over-shoulder areas of said pedestrian on both sides of said reference area (Fig. 15 shows a center line starting with P1 that cuts the figure in half, the areas within area1 is dived by the center line; the two sections reads on the over-shoulder area); and a pedestrian's shape acknowledging unit which acknowledges said pedestrian who is in said captured image according to a feature in a luminance in said reference areas and a feature in a luminance in said object areas ([0123]).

As to claim 4, it differs from claim 1 in that claim 4 further teaches a display device which displays an object which is acknowledged as a pedestrian by the pedestrian's shape acknowledging unit distinguishably from an object which is not acknowledged as a pedestrian ([0053], lines 2-5).

As to claim 5, it differs from claim 4 in that claim 5 further teaches an alarm determination device which determines whether or not an alarm should be generated based on the object which is acknowledged as a pedestrian by the pedestrian's shape acknowledging unit ([0053], lines 1-2).

Art Unit: 2624

As to claim 2, Nagaoka teaches wherein said object areas are offset upwardly from said reference area (Fig. 15).

As to claims 6 and 10, they are the same as claim 2. Please see above for detail analysis.

As to claim 3, Nagaoka teaches a pedestrian's shoulder area calculating unit which establishes other object area for acknowledging said pedestrian's arms and shoulders downwardly to said object areas respectively (Fig. 16A) wherein said pedestrian's shape acknowledging unit acknowledges said pedestrian in said captured image according to a feature in a luminance in said object areas and said other object areas ([0123]).

As to claims 7 and 11, they are the same as claim 3. Please see above for detail analysis.

As to claim 8, Nagaoka teaches wherein said display device displays the object, which is acknowledged as a pedestrian by the pedestrian's shape acknowledging unit, distinguishably in an emphasized manner (S3 Fig. 3).

As to claim 12, it is the same as claim 8. Please see above for detail analysis.

Page 5

Application/Control Number: 10/801,413

Art Unit: 2624

As to claim 9, Nagaoka teaches wherein said a feature in said luminance is specified according to at least one of an average luminance, a luminance contrast, a relativity error value between said object areas and said other object areas ([0186], lines 8-11).

As to claims 13 and 14, they are the same as claim 9. Please see above for detail analysis.

Art Unit: 2624

3. Claims 1, 4 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Fujimura et al. (US 2006/0177097 hereinafter "Fujimura").

As to claim 1, Fujimura teaches a device for monitoring around a vehicle capable of detecting objects present around said vehicle based on an image captured by at least one infrared camera member (infrared video source that captures an infrared image; Paragraph [0010], lines 5-7) provided with said vehicle, said device comprising a pedestrian's head area calculating unit which establishes an area which is supposed to correspond to a head of said pedestrian as a reference area (candidate detection module that finds a cluster of pixels that represents a human head; [0055], lines 1-5); a pedestrian's over-shoulder area calculating unit which establishes two object areas which are supposed to correspond to over-shoulder areas of said pedestrian on both sides of said reference area (body-ground candidates are a group of pixel clusters that can represent human hands or other detected body parts; [0056], lines 5-7); and a pedestrian's shape acknowledging unit which acknowledges said pedestrian who is in said captured image according to a feature in a luminance in said reference areas and a feature in a luminance in said object areas (the candidate detection module determines if the clip is a body-ground type and if so, then the hotspot is a candidate for verification; [0056], lines 9-13).

As to claim 4, it differs from claim 1 in that claim 4 further teaches a display device which displays an object which is acknowledged as a pedestrian by the

Art Unit: 2624

pedestrian's shape acknowledging unit distinguishably from an object which is not acknowledged as a pedestrian (Fujimura teaches an output display module interleaves detection frames and tracking frames in generating output video for the display; [0010], lines 12-14).

As to claim 5, it differs from claim 4 in that claim 5 further teaches an alarm determination device which determines whether or not an alarm should be generated based on the object which is acknowledged as a pedestrian by the pedestrian's shape acknowledging unit (Fujimura teaches a system including an audio warning module for generating a warning sound in response to a pedestrian's proximity to the vehicle; [0010], lines 14-17).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tsuji et al. (US 6,327,536) teaches a vehicle environment monitoring system. Imagawa et al. (US 6,961,466) teaches a method for object recognition.

Art Unit: 2624

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Claire Wang whose telephone number is 571-270-1051. The examiner can normally be reached on Mid-day flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Mancuso can be reached on 571-272-7695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Claire Wang 04/20/2007

SUPERVISORY PATENT EXAMINER